

BC #9

PCT

## RAW SEQUENCE LISTING

PATENT APPLICATION: US/09/889,283

DATE: 07/27/2001

TIME: 19:26:07

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\07272001\I889283.raw

ENTERED

4 <110> APPLICANT: Ruelle, Jean-Louis  
 5 Thonnard, Joelle  
 7 <120> TITLE OF INVENTION: Novel Compounds  
 10 <130> FILE REFERENCE: BM45348  
 C--> 12 <140> CURRENT APPLICATION NUMBER: US/09/889,283  
 C--> 12 <141> CURRENT FILING DATE: 2001-07-13  
 12 <150> PRIOR APPLICATION NUMBER: PCT/EP00/00135  
 13 <151> PRIOR FILING DATE: 2000-01-10  
 15 <160> NUMBER OF SEQ ID NOS: 16  
 17 <170> SOFTWARE: FastSEQ for Windows Version 4.0  
 19 <210> SEQ ID NO: 1  
 20 <211> LENGTH: 804  
 21 <212> TYPE: DNA  
 22 <213> ORGANISM: Neisseria meningitidis  
 24 <400> SEQUENCE: 1  
 25 atgaaaaaaa ttcttttaac ggtttcatta ggtttggcac tgagtgcctg tgccactcaa 60  
 26 ggtacggtcg ataaagatgc tcagattacc caagattgga gtgtggagaa gctctatgcc 120  
 27 gaagcccagg acgaattgaa cagcagcaat tatacgcggg ctgtcaagtt atacgaaatc 180  
 28 ttggaatcgc gcttccccac cagccgccat gcccgccaat cccaactgga taccgcatac 240  
 29 gcctattata aagacgatga aaaagacaag gctctggcgg caatcgaacg cttccgccgc 300  
 30 ctccatccgc agcatccgaa tatggattac gcgctgtatc tgcgcggcgtt ggtgctgttc 360  
 31 aacgaagacc agtccttctt gaacaaaactg gcctcgcaag actggtccga ccgcgaccgc 420  
 32 aaagccaacc gcgaagtaac ccaggcggtt gcggaactcg tccaacgctt ccccaacagc 480  
 33 aaatacgccg ccgatgcgac cgcacgcgat gtcaaaactg tcgatgcact gggcggaat 540  
 34 gaaatgtcgg tggcgcgcta ctacatgaaa cgcggcgcat atatcgccgc cgccaaccgc 600  
 35 gcccaaaaaa ttatcggcag ctaccaaaaat acacgctatg tcgaagaatc gctcgccatc 660  
 36 ttggaacttg cctacaaaaa actcggcaaa ccacagcttg ccgccgatac gcgcgcgctg 720  
 37 ttggaaacca acttcccga aagcccggtt ttgacgcacg cttggcagcc cgacgatatg 780  
 38 ccttgggtggc gttactggca ttaa 804  
 40 <210> SEQ ID NO: 2  
 41 <211> LENGTH: 267  
 42 <212> TYPE: PRT  
 43 <213> ORGANISM: Neisseria meningitidis  
 45 <400> SEQUENCE: 2  
 46 Met Lys Lys Ile Leu Leu Thr Val Ser Leu Gly Leu Ala Leu Ser Ala  
 47 1 5 10 15  
 48 Cys Ala Thr Gln Gly Thr Val Asp Lys Asp Ala Gln Ile Thr Gln Asp  
 49 20 25 30  
 50 Trp Ser Val Glu Lys Leu Tyr Ala Glu Ala Gln Asp Glu Leu Asn Ser  
 51 35 40 45  
 52 Ser Asn Tyr Thr Arg Ala Val Lys Leu Tyr Glu Ile Leu Glu Ser Arg  
 53 50 55 60  
 54 Phe Pro Thr Ser Arg His Ala Arg Gln Ser Gln Leu Asp Thr Ala Tyr  
 55 65 70 75 80  
 56 Ala Tyr Tyr Lys Asp Asp Glu Lys Asp Lys Ala Leu Ala Ala Ile Glu  
 57 85 90 95  
 58 Arg Phe Arg Arg Leu His Pro Gln His Pro Asn Met Asp Tyr Ala Leu

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59          100          105          110
60 Tyr Leu Arg Gly Leu Val Leu Phe Asn Glu Asp Gln Ser Phe Leu Asn
61          115          120          125
62 Lys Leu Ala Ser Gln Asp Trp Ser Asp Arg Asp Pro Lys Ala Asn Arg
63          130          135          140
64 Glu Val Thr Gln Ala Phe Ala Glu Leu Val Gln Arg Phe Pro Asn Ser
65 145          150          155          160
66 Lys Tyr Ala Ala Asp Ala Thr Ala Arg Met Val Lys Leu Val Asp Ala
67          165          170          175
68 Leu Gly Gly Asn Glu Met Ser Val Ala Arg Tyr Tyr Met Lys Arg Gly
69          180          185          190
70 Ala Tyr Ile Ala Ala Ala Asn Arg Ala Gln Lys Ile Ile Gly Ser Tyr
71          195          200          205
72 Gln Asn Thr Arg Tyr Val Glu Glu Ser Leu Ala Ile Leu Glu Leu Ala
73          210          215          220
74 Tyr Gln Lys Leu Gly Lys Pro Gln Leu Ala Ala Asp Thr Arg Arg Val
75 225          230          235          240
76 Leu Glu Thr Asn Phe Pro Lys Ser Pro Phe Leu Thr His Ala Trp Gln
77          245          250          255
78 Pro Asp Asp Met Pro Trp Trp Arg Tyr Trp His
79          260          265
81 <210> SEQ ID NO: 3
82 <211> LENGTH: 1404
83 <212> TYPE: DNA
84 <213> ORGANISM: Neisseria meningitidis
86 <400> SEQUENCE: 3
87 atggatacta cattgaaaac caccttgact tctgttgacg cagccttcgc attatccgcc      60
88 tgcaccatga ttccccaata cgagcagccc aaagtcgaag ttgccgaaac gtttaaaaac      120
89 gataccgcgc acagcggcat ccgctgcggtc gatttaggtt ggcatgacta ttttgccgac      180
90 ccgcgcctgc aaaagctgat cgacatcgca ctcgagcgca ataccagttt gcgtaccgcc      240
91 gtattgaaca gcgaaatcta ccgcaaacia tacatgattg agcgcaacia cctcctgccc      300
92 acgcttgccg ccaatgcgaa cggtcgcgc caaggcagct tgagcggcgg caatgtcagc      360
93 agcagctaca atgtcggact ggggtgcggca tcttacgaac tcgacctgtt cggacgcgtc      420
94 cgcagcagca gcgaagcagc actgcaaggc tattttgcaa gtgtcgccaa ccgcgatgcg      480
95 gcacatttga gcctgattgc caccgttgcc aaagcctatt tcaacgaacg ttatgcogaa      540
96 gaagcgatgt ctttggcgca gcgtgttttg aaaacgcgcg aggaaaccta caagctgtcc      600
97 gaattacgtt acaaggcagg cgtgatttcc gccgtcgccc tacgtcagca ggaagccctg      660
98 atcgaatctg ccaaagccga ttatgcccac gccgcgcgca gccgcgaaca ggcgcgcaat      720
99 gccttgccaa ccttgattaa ccaaccgata cccgaagacc tgccctgcgg tttgccgctg      780
100 gacaagcagt tttttgttga aaaactgccg gccggtttga gttccgaagt attgctcgac      840
101 cgtcccgcata tccgtgctgc cgaacacgcg ctcaaacagg caaacgccaa tatcggtgcg      900
102 gcacgcgcgc cctttttccc atccatccgc ctgaccggaa ccgtcggtac gggttctgcc      960
103 gaattgggtg ggttgttcaa aagcggcacg ggcgtttggt cgttcgcgcc gtctattacc      1020
104 ctgccgattt ttacctgggg tacgaacaaa gccaaccttg atgtagccaa gctgcgccaa      1080
105 caggcacaaa tcgttgccca tgaagccgcc gtccaatccg catttcaaga cgtggcaaac      1140
106 gcattggcgg cgcgcgagca gctggataaa gcctatgacg ctttaagcaa acaaagccgc      1200
107 gcctctaaag aggcgttgcg cttggtcggc ctgcgttaca agcacggcgt atccggcgcg      1260
108 ctgcacttgc tcgatgcgga acgcagcagc tatgcggcgg aggggtgcggc tttgtcggca      1320
109 caactgaccc gcgccgaaaa ccttgccgat ttgtacaagg cactcggcgg cggattgaaa      1380

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110 cgggataccc aaaccgacaa ataa                                1404
112 <210> SEQ ID NO: 4
113 <211> LENGTH: 467
114 <212> TYPE: PRT
115 <213> ORGANISM: Neisseria meningitidis
117 <400> SEQUENCE: 4
118 Met Asp Thr Thr Leu Lys Thr Thr Leu Thr Ser Val Ala Ala Ala Phe
119 1 5 10 15
120 Ala Leu Ser Ala Cys Thr Met Ile Pro Gln Tyr Glu Gln Pro Lys Val
121 20 25 30
122 Glu Val Ala Glu Thr Phe Lys Asn Asp Thr Ala Asp Ser Gly Ile Arg
123 35 40 45
124 Ala Val Asp Leu Gly Trp His Asp Tyr Phe Ala Asp Pro Arg Leu Gln
125 50 55 60
126 Lys Leu Ile Asp Ile Ala Leu Glu Arg Asn Thr Ser Leu Arg Thr Ala
127 65 70 75 80
128 Val Leu Asn Ser Glu Ile Tyr Arg Lys Gln Tyr Met Ile Glu Arg Asn
129 85 90 95
130 Asn Leu Leu Pro Thr Leu Ala Ala Asn Ala Asn Gly Ser Arg Gln Gly
131 100 105 110
132 Ser Leu Ser Gly Gly Asn Val Ser Ser Ser Tyr Asn Val Gly Leu Gly
133 115 120 125
134 Ala Ala Ser Tyr Glu Leu Asp Leu Phe Gly Arg Val Arg Ser Ser Ser
135 130 135 140
136 Glu Ala Ala Leu Gln Gly Tyr Phe Ala Ser Val Ala Asn Arg Asp Ala
137 145 150 155 160
138 Ala His Leu Ser Leu Ile Ala Thr Val Ala Lys Ala Tyr Phe Asn Glu
139 165 170 175
140 Arg Tyr Ala Glu Glu Ala Met Ser Leu Ala Gln Arg Val Leu Lys Thr
141 180 185 190
142 Arg Glu Glu Thr Tyr Lys Leu Ser Glu Leu Arg Tyr Lys Ala Gly Val
143 195 200 205
144 Ile Ser Ala Val Ala Leu Arg Gln Gln Glu Ala Leu Ile Glu Ser Ala
145 210 215 220
146 Lys Ala Asp Tyr Ala His Ala Ala Arg Ser Arg Glu Gln Ala Arg Asn
147 225 230 235 240
148 Ala Leu Ala Thr Leu Ile Asn Gln Pro Ile Pro Glu Asp Leu Pro Ala
149 245 250 255
150 Gly Leu Pro Leu Asp Lys Gln Phe Phe Val Glu Lys Leu Pro Ala Gly
151 260 265 270
152 Leu Ser Ser Glu Val Leu Leu Asp Arg Pro Asp Ile Arg Ala Ala Glu
153 275 280 285
154 His Ala Leu Lys Gln Ala Asn Ala Asn Ile Gly Ala Ala Arg Ala Ala
155 290 295 300
156 Phe Phe Pro Ser Ile Arg Leu Thr Gly Thr Val Gly Thr Gly Ser Ala
157 305 310 315 320
158 Glu Leu Gly Gly Leu Phe Lys Ser Gly Thr Gly Val Trp Ser Phe Ala
159 325 330 335
160 Pro Ser Ile Thr Leu Pro Ile Phe Thr Trp Gly Thr Asn Lys Ala Asn

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161          340          345          350
162 Leu Asp Val Ala Lys Leu Arg Gln Gln Ala Gln Ile Val Ala Tyr Glu
163          355          360          365
164 Ala Ala Val Gln Ser Ala Phe Gln Asp Val Ala Asn Ala Leu Ala Ala
165          370          375          380
166 Arg Glu Gln Leu Asp Lys Ala Tyr Asp Ala Leu Ser Lys Gln Ser Arg
167 385          390          395          400
168 Ala Ser Lys Glu Ala Leu Arg Leu Val Gly Leu Arg Tyr Lys His Gly
169          405          410          415
170 Val Ser Gly Ala Leu Asp Leu Leu Asp Ala Glu Arg Ser Ser Tyr Ala
171          420          425          430
172 Ala Glu Gly Ala Ala Leu Ser Ala Gln Leu Thr Arg Ala Glu Asn Leu
173          435          440          445
174 Ala Asp Leu Tyr Lys Ala Leu Gly Gly Gly Leu Lys Arg Asp Thr Gln
175          450          455          460
176 Thr Asp Lys
177 465
179 <210> SEQ ID NO: 5
180 <211> LENGTH: 420
181 <212> TYPE: DNA
182 <213> ORGANISM: Neisseria meningitidis
184 <400> SEQUENCE: 5
185 atgaaaaaac ttctaattgat aaccctcacc ggtatgcttg cagcttggtgc aacaggtgtc      60
186 aatgtcggcc ggttgatggt tgaaatgccg caggagagaac gttctgtcgt tgtgcaggtt      120
187 cccgcgacaa ataaccgct ttccgatacg gtagctgtcg gaatgattaa aacatccggt      180
188 tcgccttcgg catcaaatat gattgaaatg ctgcgcgcgg acaatatcaa cgtcggcggtg      240
189 gtgggaagca gccaaatgct taataaggcg accgcacttt attccttaaa ccatgcaaag      300
190 aaagtcggaa ataatgtcag tgtttatatg atgggcgaca gcgaaagtga caaggccgat      360
191 ttggaaaacg cggcaaatgc caaaaatatc aaattgcatt atttctttaa ccaaaaataa      420
193 <210> SEQ ID NO: 6
194 <211> LENGTH: 139
195 <212> TYPE: PRT
196 <213> ORGANISM: Neisseria meningitidis
198 <400> SEQUENCE: 6
199 Met Lys Lys Leu Leu Met Ile Thr Leu Thr Gly Met Leu Ala Ala Cys
200 1          5          10          15
201 Ala Thr Gly Val Asn Val Gly Arg Leu Met Val Glu Met Pro Gln Gly
202          20          25          30
203 Glu Arg Ser Val Val Val Gln Val Pro Ala Thr Asn Asn Pro Leu Ser
204          35          40          45
205 Asp Thr Val Ala Val Gly Met Ile Lys Thr Ser Gly Ser Pro Ser Ala
206          50          55          60
207 Ser Asn Met Ile Glu Met Leu Gly Ala Asp Asn Ile Asn Val Gly Val
208 65          70          75          80
209 Val Gly Ser Ser Gln Met Leu Asn Lys Ala Thr Ala Leu Tyr Ser Leu
210          85          90          95
211 Asn His Ala Lys Lys Val Gly Asn Asn Val Ser Val Tyr Met Met Gly
212          100         105         110
213 Asp Ser Glu Ser Asp Lys Ala Asp Leu Glu Asn Ala Ala Asn Ala Lys

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Output Set: N:\CRF3\07272001\I889283.raw

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214          115          120          125
215 Asn Ile Lys Leu His Tyr Phe Phe Asn Gln Lys
216          130          135
218 <210> SEQ ID NO: 7
219 <211> LENGTH: 516
220 <212> TYPE: DNA
221 <213> ORGANISM: Neisseria meningitidis
223 <400> SEQUENCE: 7
224 atgaaaatca aacaaatcgt caaacccgggc ttggcagtat tggcggcggg cgttctgtct      60
225 gcctgcgcaa ccaaagcaa cgtcaaagcc gacggaacga cgcacaatcc ggttttcccg      120
226 aaaccctatt ccgtaacgct cgacaacaat cgcggtacat tcccgcaccta tgacgaattg      180
227 gacttgatgc gtcccgggtct gaccaaagac gacatctaca aaatcctggg tcgtccgcat      240
228 tacgacgaag gtatgtacgg cgtgcgcgaa tgggattatc tgttccactt ccacaccccg      300
229 ggcgtaggca tcgaccctga aaacacttcc ggcgtagaag gcattaccac ctgtcaatac      360
230 aaaattattt tcgataaaga caaatttgcc cgcagcttct actggaaccc cgtcttcccg      420
231 aaagatgccg cctgtccgcc gcccgacccc aaagccgagc cgcaagtcat catccgcgaa      480
232 atcgtgcccg ccaaacccaa acgcatccgc caataa      516
234 <210> SEQ ID NO: 8
235 <211> LENGTH: 171
236 <212> TYPE: PRT
237 <213> ORGANISM: Neisseria meningitidis
239 <400> SEQUENCE: 8
240 Met Lys Ile Lys Gln Ile Val Lys Pro Gly Leu Ala Val Leu Ala Ala
241 1          5          10          15
242 Gly Val Leu Ser Ala Cys Ala Thr Lys Ser Asn Val Lys Ala Asp Gly
243          20          25          30
244 Thr Thr Asp Asn Pro Val Phe Pro Lys Pro Tyr Ser Val Thr Leu Asp
245          35          40          45
246 Asn Asn Arg Gly Thr Phe Pro Thr Tyr Asp Glu Leu Asp Leu Met Arg
247          50          55          60
248 Pro Gly Leu Thr Lys Asp Asp Ile Tyr Lys Ile Leu Gly Arg Pro His
249 65          70          75          80
250 Tyr Asp Glu Gly Met Tyr Gly Val Arg Glu Trp Asp Tyr Leu Phe His
251          85          90          95
252 Phe His Thr Pro Gly Val Gly Ile Asp Pro Glu Asn Thr Ser Gly Val
253          100         105         110
254 Glu Gly Ile Thr Thr Cys Gln Tyr Lys Ile Ile Phe Asp Lys Asp Lys
255          115         120         125
256 Phe Ala Arg Ser Phe Tyr Trp Asn Pro Val Phe Pro Lys Asp Ala Ala
257          130         135         140
258 Cys Pro Pro Pro Ala Pro Lys Ala Glu Pro Gln Val Ile Ile Arg Glu
259 145         150         155         160
260 Ile Val Pro Ala Lys Pro Lys Arg Ile Arg Gln
261          165         170
263 <210> SEQ ID NO: 9
264 <211> LENGTH: 816
265 <212> TYPE: DNA
266 <213> ORGANISM: Neisseria meningitidis
268 <400> SEQUENCE: 9

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## VERIFICATION SUMMARY

PATENT APPLICATION: US/09/889,283

DATE: 07/27/2001

TIME: 19:26:08

Input Set : A:\seqlist.txt

Output Set: N:\CRF3\07272001\I889283.raw

L:12 M:270 C: Current Application Number differs, Replaced Current Application No

L:12 M:271 C: Current Filing Date differs, Replaced Current Filing Date